

ABSTRACT OF THE DISCLOSURE

The invention comprises compositions and methods for determining the function of proteins. It advantageously uses cotransfection of a reporter gene to remove transfection

5 efficiency as a factor affecting the success of cell based assays. This method links the activity of the gene product of interest to the expression of the reporter gene. In addition, it also allows for the development of assays that allow for rapid screening for protein function in cells and whole animals by using cloned genes in a high throughput assay format which is simple, fast and inexpensive.